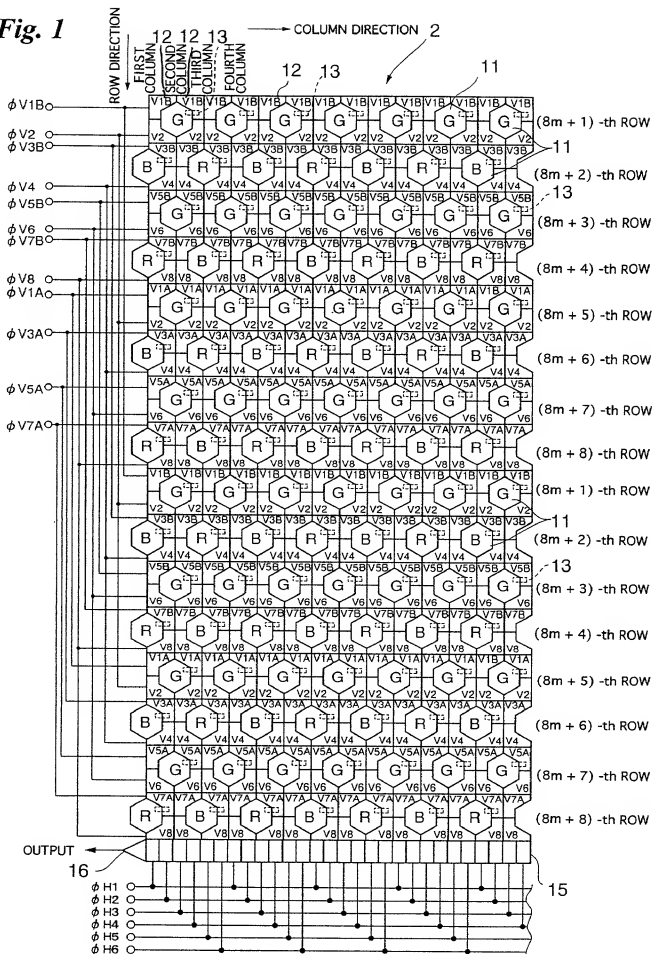


**Fig. 1**



**Fig. 2A**

READ OUT ALL PIXELS

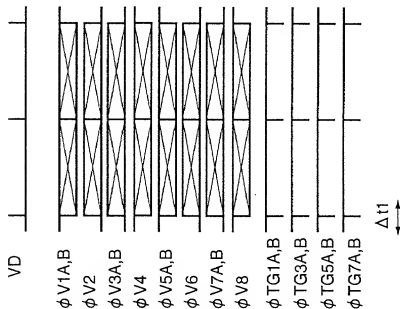
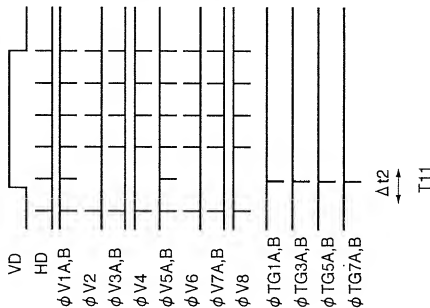
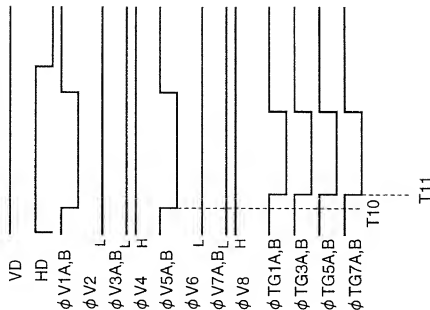
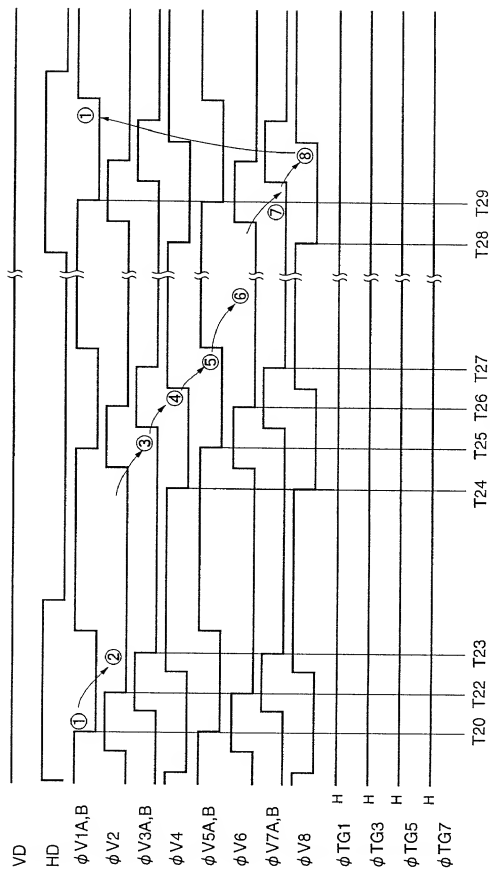
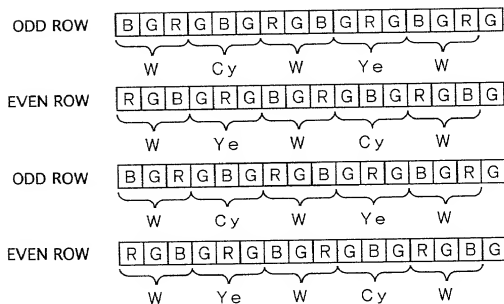
**Fig. 2B**READ OUT ALL PIXELS  
(ENLARGED VIEW OF  $\Delta t1$ )**Fig. 2C**READ OUT ALL PIXELS  
(ENLARGED VIEW OF  $\Delta t2$ )

Fig. 3

VERTICAL TRANSFER IN READING OUT ALL PIXELS



**Fig. 4****Fig. 5**

	FIRST COLUMN	SECOND COLUMN	THIRD COLUMN	FOURTH COLUMN
ODD ROW	W	Cy	W	Ye
EVEN ROW	W	Ye	W	Cy
ODD ROW	$W_{12}$	$Cy_{22}$	W	Ye
EVEN ROW	$W_{11}$	$Ye_{21}$	W	Cy

Fig. 6A

READOUT BY 1/2 PIXEL THINNING

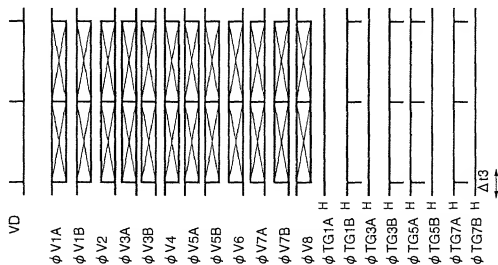


Fig. 6B

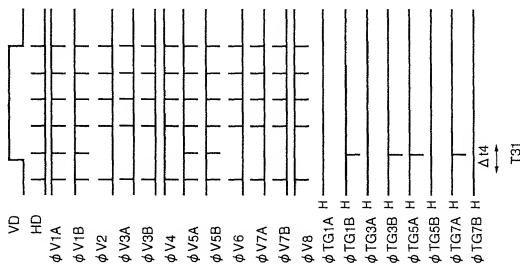
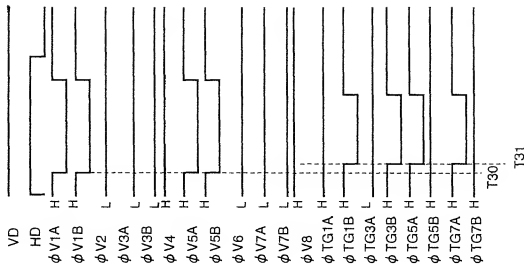
READOUT BY 1/2 PIXEL THINNING  
(ENLARGED VIEW OF  $\Delta t3$ )

Fig. 6C

READOUT BY 1/2 PIXEL THINNING  
(ENLARGED VIEW OF  $\Delta t4$ )

**Fig. 7**

HORIZONTAL TRANSFER IN ODD ROWS

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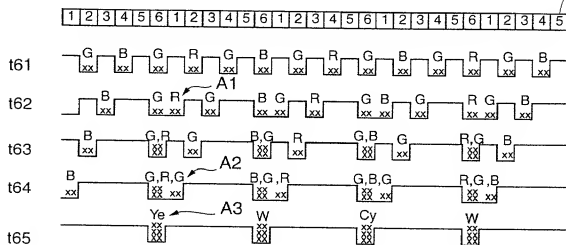
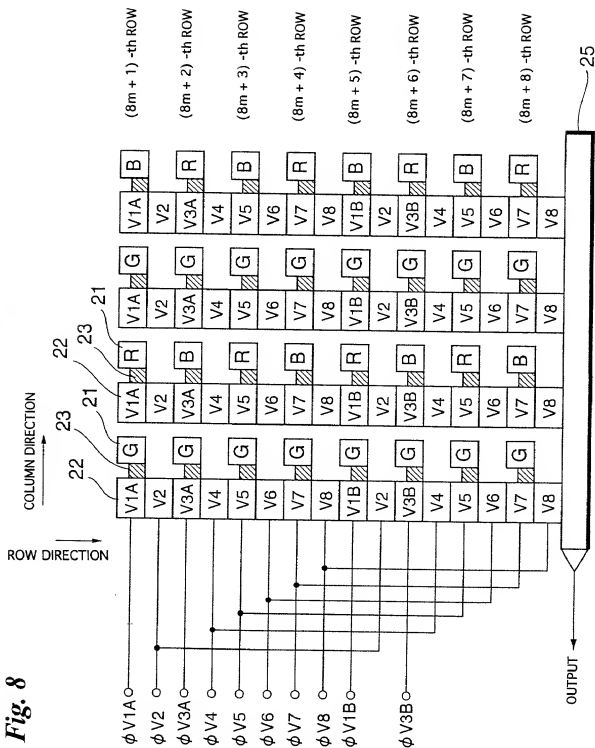


Fig. 8



**Fig. 9A**

READ OUT ALL PIXELS

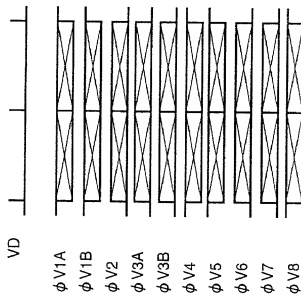
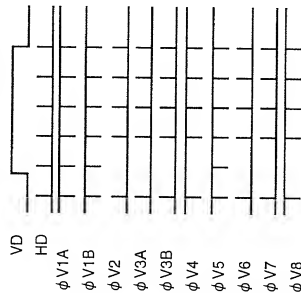
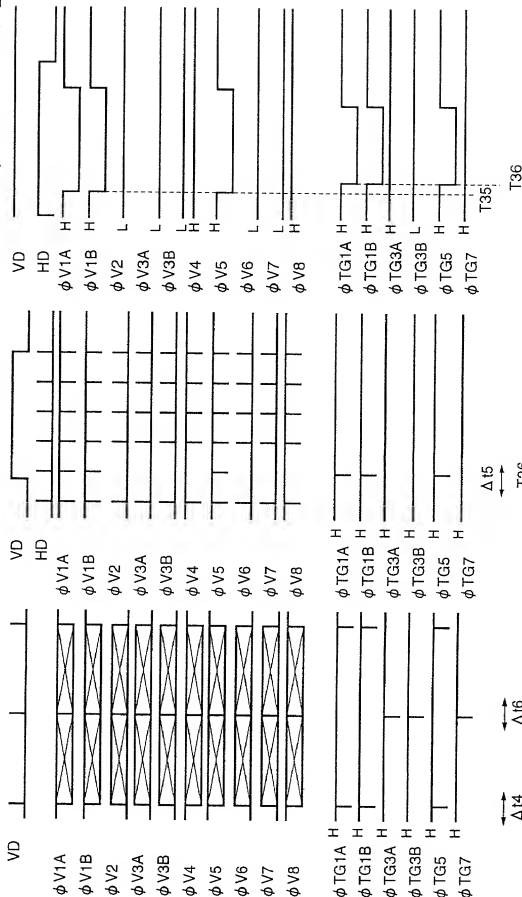
**Fig. 9B**READ OUT ALL PIXELS  
(ODD FIELD, ENLARGED VIEW OF  $\Delta t4$ )**Fig. 9C**READ OUT ALL PIXELS  
(ODD FIELD, ENLARGED VIEW OF  $\Delta t5$ )

Fig. 10A

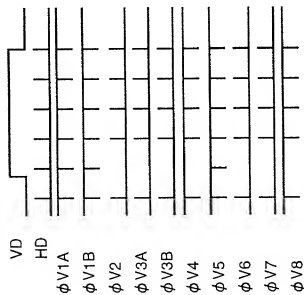
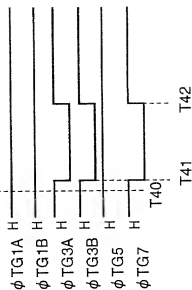
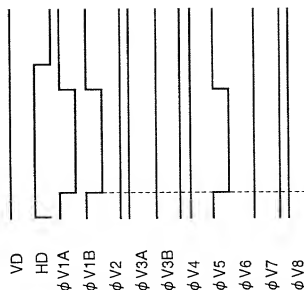
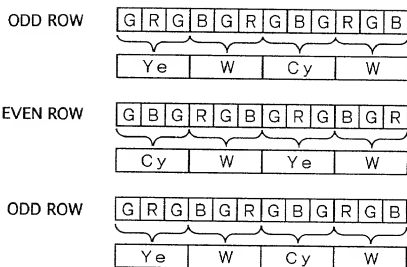
READ OUT ALL PIXELS  
(EVEN FIELD)

Fig. 10B

READ OUT ALL PIXELS  
(ENLARGED VIEW OF  $\Delta t6$ )

**Fig. 11****Fig. 12**

ODD ROW	Ye	W	Cy	W
EVEN ROW	Cy	W	Ye	W
ODD ROW	Ye	W	Cy	W

**Fig. 13A**

READOUT BY 1/4 PIXEL THINNING

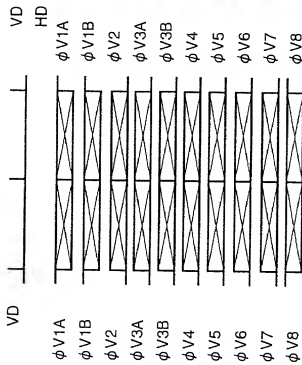
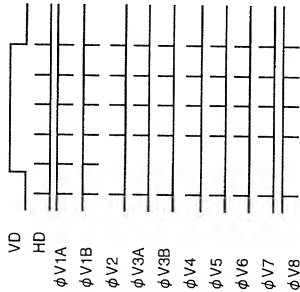
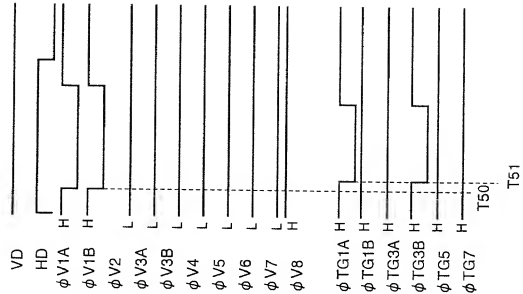
**Fig. 13B**READOUT BY 1/4 PIXEL THINNING  
(ENLARGED VIEW OF  $\Delta t8$ )**Fig. 13C**READOUT BY 1/4 PIXEL THINNING  
(ENLARGED VIEW OF  $\Delta t9$ )

Fig. 14

